

**Paper Reference 31761H**  
**Pearson BTEC Level 3**  
**Nationals Certificate, Extended**  
**Certificate, Foundation Diploma, Diploma,**  
**Extended Diploma**

**INFORMATION TECHNOLOGY**  
**UNIT 2: CREATING SYSTEMS TO**  
**MANAGE INFORMATION**  
**(PART B)**

**Friday 17 January 2020 – Morning**  
**Time: 2 hours (plus your additional**  
**time allowance)**

**YOU MUST HAVE:**

- **activity6.rtf**
- **activity7.rtf**
- **partB\_database.accdb or**
- **partB\_database.mdb**

**V65922A**

## **ITEMS INCLUDED WITH QUESTION PAPER**

- **Instructions to Invigilators.**
- **Instructions for Learners.**
- **Part B Set Task Brief.**

## **INSTRUCTIONS**

- **Part A and Part B contain the material for the completion of the set tasks under supervised conditions.**
- **There are 40 marks for Part A and 26 marks for Part B, giving a total mark for the set tasks of 66.**
- **Part A and Part B are specific to each series and this material must be issued only to learners who have been entered to take the tasks in the specified series.**
- **Learners MUST ONLY have access to Part B during this examination session.**
- **This booklet should be kept securely until the start of the 2 – hour supervised assessment period.**

**Turn over**

- **Part A materials MUST NOT be accessed during the completion of Part B.**
- **Part A and Part B should be submitted together for each learner.**
- **This booklet should not be returned to Pearson.**
- **Answer ALL activities.**

## **INFORMATION**

- **The total mark for this paper is 26.**
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## **Part B SET TASK**

**YOU MUST COMPLETE ALL ACTIVITIES  
WITHIN THE SET TASK.**

**PRODUCE YOUR DOCUMENTS USING  
A COMPUTER.**

**SAVE YOUR DOCUMENTS IN YOUR  
FOLDER READY FOR SUBMISSION  
USING THE FORMATS AND NAMING  
CONVENTIONS INDICATED.**

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**Activity 6 is on the next page.**

**ACTIVITY 6: FORMS – You are advised to spend 1 hour and 10 minutes (plus your additional time allowance) on this activity.**

**NOTE**

- **The structure of the tables provided should not be changed in any way, e.g. do not add validation, do not change data types.**
- **You will ONLY be required to use tblStaff and tblJobRole.**

**continued on the next page . . .**

- (a) Create an efficient interface that will facilitate database input by producing:**
- (i) an input form to add a member of staff.**
- **The form should be ready for data entry.**
  - **The staff member's surname must be present.**
  - **The user should be able to select the staff member's job role.**
  - **The user should be able to select the staff member's availability.**
  - **Valid data should be appended to the staff table and a save message should display.**
  - **A suitable error message should appear where invalid data has been used.**

- (ii) an input form to check staff availability.
- The form should NOT include validation for any fields.
  - The form should NOT include an automated routine to save the data.
  - The user should be able to select the job role.
  - The user should be able to select either Friday or Saturday as the day they want to check availability for.
  - After the job role and day have been selected the form must display:
    - a list of the names of staff members who are available
    - the total number of staff available for the job role and day.

**Evidence your interface as screenprints using the given activity6.rtf template.**

**Turn over**

**Your screenprints must show:**

- the **DESIGN** view and **FORM** view of all the forms you have created
- the **DESIGN** view of any queries you have created and used with the forms including fields and criteria
- the **DATASHEET** view of any queries you have created and used with the forms
- details of any calculations, validation and macros/code you have created and used with the forms.

**Ensure sufficient information is provided to allow a competent third party to maintain the database.**

**Save the evidence of your interface as a PDF in your folder for submission as**

**activity6\_[Registration number #]\_  
[surname]\_[first letter of first name]**

**(TOTAL FOR ACTIVITY 6 = 14 MARKS)**

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**Turn over**



## **ACTIVITY 7: INTERFACE TESTING –**

**You are advised to spend 20 minutes (plus your additional time allowance) on this activity.**

**Test the interface of your relational database using appropriate test data (normal, erroneous and extreme as appropriate).**

**You must provide evidence of FORM LEVEL testing that proves:**

- 1. the user cannot select an invalid job role on the input form that adds a member of staff**
- 2. the user cannot select invalid availability on the input form that adds a member of staff**
- 3. a record will not save in the staff table without a staff member's forename**

**continued on the next page . . .**

- 4. a record will save in the staff table if the staff member's details are present and valid**
- 5. the correct list of staff members displays when the job role is 'Bartender' and the availability is 'Friday'**
- 6. the correct total number of staff displays when the job role is 'Steward' and the availability is 'Saturday'.**

**Complete the test log to show how you have tested your input forms using the given activity7.rtf template.**

**Save your test log as a PDF in your folder for submission as**

**activity7\_[Registration number #]\_[surname]\_[first letter of first name]**

**(TOTAL FOR ACTIVITY 7 = 6 MARKS)**

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**ACTIVITY 8: INTERFACE EVALUATION –**  
**You are advised to spend 20 minutes**  
**(plus your additional time allowance)**  
**on this activity.**

**Evaluate your interface.**

**You should consider**

- **the quality, performance and usability of the interface you have created in terms of how well it ensures:**
  - **the user cannot select an invalid job role**
  - **the user cannot select invalid availability**
  - **a record will not save in the staff table without a staff member's forename**
  - **a record will save in the staff table if the staff member's details are present and valid**

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**Turn over**

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- **the correct list of staff members displays when the job role is ‘Bartender’ and the availability is ‘Friday’**
- **the correct total number of staff displays when the job is ‘Steward’ and the availability is ‘Saturday’.**

**Save your evaluation as a PDF in your folder for submission as**

**activity8\_[Registration number #]\_[surname]\_[first letter of first name]**

**(TOTAL FOR ACTIVITY 8 = 6 MARKS)**

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**TOTAL FOR PART B = 26 MARKS**

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